

Work Order ID 146294

Monday, May 16, 2016 11:10:26 AM

146294

Page 1

Item ID: 647.7304

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 6/27/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: Em Date: 16/05/19 Tooling: _____ Date: _____Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.7300	B	MAY 24 2016		6					

100

Document Control

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 647.7304

DAS
27
9-89

JUN 30 2016

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

DAS
27
9-89
DAS
28
9-89
MAY 27 2016

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

DAS
27
9-89

JUN 30 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : ☐							

Work Order ID 146294***146294***

Page 2

Monday, May 16, 2016 11:10:26 AM

Item ID: 647.7304

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 6/27/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
130	Packaging					DAS 28 9-89	DAS 27 9-89		
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 647.7304 Location: _____								
									DAS 16 9-89
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.10							1666/30
Quality Control									

SA 6/30/16

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Monday, May 16, 2016 11:10:30 AM

Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 16.04.27 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.7501 *647 7501* Lower Cutter Assembly DAS 27 9-89		Manufactured	No				Each	0.0000	**	136950			DAS 28 9-89
647.1601 *647 1601* Wiper Deflector Aft DAS 27 9-89		Manufactured	No				Each	10.0000	**	147733			DAS 28 9-89
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				CCK091			10						
				123044			10						
647.1610 *647 1610* Wiper Deflector Fwd DAS 27 9-89		Manufactured	No				Each	8.0000	**	1			DAS 28 9-89
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				CCK091			8						
				92599			2						
				93367			1						
				M130388			5						
647.1913 *647 1913* Tee DAS 27 9-89		Manufactured	No				Each	23.0000	**	1			DAS 28 9-89
				<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>				
				CCK093			23						DAS 28 9-89
				114126			6						
				92229			10						
				94139			5						
				M130388			2						

JUN 07 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐		
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐					
Misidentified ☐	Past Due ☐						

Picklist Print

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Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

647.1915

Manufactured No

Each

32.0000

1

647 1915

Support Angle

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK093

32

114127

6

92230

9

93416

3

94786

2

M130388

12

DAS
28
9-89
DAS
6
9-89

647.1814

Manufactured No

Each

38.0000

1

647 1814

Gusset LH

DAS
27
9-89

Location

Loc Qty

Loc Code

cck023a

6

92075

6

CCK032a

24

M130388

24

CCK110

8

106843

3

92535

1

93333

4

JUN 07 2016
DAS
6
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

647.1815 Manufactured No

Each 36.0000

1

647 1815

Gusset RH

DAS
6
28
9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
CCK032a	24	
M130388	24	
CCK110	12	
106681	3	
92013	1	
92076	4	
92492	4	

647.7702 Manufactured No

Each 0.0000

2

647 7702

Strut Assembly
647.7701
DAS
27
9-89

DAS
6
28
9-89

130388

Manufactured No

Each 1.0000

2

647 7701

Strut Assembly

DAS
6
28
9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
CCK114	1	
M130388	1	

647.1818 Manufactured No

Each 35.0000

1

647 1818

Nose Door Spacer

DAS
6
28
9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
CCK032a	24	
M130388	24	
CCK110	11	
92016	1	
92079	6	
92525	1	
93302	3	

JUN 07 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Monday, May 16, 2016 11:10:30 AM

Page 4

Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

✕ 647.1810 Manufactured No

Each 25.0000 1

647 1810

Nose Door Doubler

DAS 28
6 9-89

Location	Loc Qty	Loc Code
CCK108	25	
92008	1	
92070	6	
92519	1	
93293	3	
M130388	14	

DAS
27
9-89

647.0112 Manufactured No

Each 18.0000 4

✓ ***647 0112***

Strut Bracket

122871
DAS 28
6 9-89

Location	Loc Qty	Loc Code
CCK107	18	
140968	18	
	Each	10.0000

DAS
27
9-89

647.7910 Manufactured No

Each 10.0000 2

✕ ***647 7910***

Angle Bracket

DAS 28
6 9-89

Location	Loc Qty	Loc Code
CCK115	10	
93329	6	
M130388	4	

68-6
27
DAS

647.7911 Manufactured No

Each 19.0000 2

✕ ***647 7911***

Bracket

DAS 28
6 9-89

Location	Loc Qty	Loc Code
CCK032a	14	
M130388	14	
CCK115	5	
93383	5	

68-6
27
DAS

Monday, May 16, 2016 11:10:30 AM

Shop Packet Print

JUN 07 2016 Page 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : ☐			
Misidentified ☐		Past Due ☐					

Picklist Print

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Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

647.7912 Manufactured No

Each 20.0000 4

DAS

647 7912

Clip

6 DAS

9-89 28

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

CCK115

20

93312

12

M130388

8

Each 10.0000

4
2

DAS

6 DAS

9-89 28

9-89

647.7913 Manufactured No

647 7913

Doubler

DAS

27

9-89

Location

Loc Qty

Loc Code

CCK115

10

93270

6

M130388

4

Each 7.0000

2

DAS

6 DAS

9-89 28

9-89

647.7914 Manufactured No

647 7914

Bracket

DAS

27

9-89

Location

Loc Qty

Loc Code

CCK115

7

93215

4

M130388

3

Each 16.0000

1

DAS

6 DAS

9-89 28

9-89

647.7915 Manufactured No

647 7915

Bracket

DAS

27

9-89

Location

Loc Qty

Loc Code

CCK032a

13

M130388

13

cck116

3

93301

3

1

JUN 07 2016

Monday, May 16, 2016 11:10:30 AM

Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

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Page 6

Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

647.7916 Manufactured No

Each 30.0000

2

DAS
6 28
9-89 9-89

647 7916
Bracket

DAS
27
9-89

Location

Loc Qty

Loc Code

cck116

30

93287

6

M130388

24

2

647.7917 Manufactured No

Each 20.0000

1

647 7917
Bracket

DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck023a

14

131356

14

cck116

6

93254

3

M130388

3

1

647.7918 Manufactured No

Each 18.0000

647 7918
Bracket

DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck116

18

119630

12

93385

3

M130388

3

1

647.7819 Manufactured No

Each 12.0000

647 7819
Cross Bracket Fwd

DAS
6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK115

12

130656

3

M130388

9

JUN 07 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐ _____			

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Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

647.7821

Manufactured No

Each

14.0000

1

~~647~~ DAS

647 7821

Eye Bolt Fitting LH

~~9~~ 28
~~9-89~~

DAS

27

9-89

Location

Loc Qty

Loc Code

CCK032a

9

130388

7

M130388

2

CCK115

5

121378

5

647.7822

Manufactured No

Each

11.0000

1

~~647~~ DAS

647 7822

Eye Bolt Fitting RH

~~9~~ DAS

~~9-89~~ 28

DAS

27

9-89

Location

Loc Qty

Loc Code

CCK032a

7

~~M130388~~

7

CCK115

4

123827

4

647.1914

Manufactured No

Each

10.0000

1

~~647~~ DAS

647 1914

Bracket

~~9~~ DAS

~~9-89~~ 28

DAS

27

9-89

Location

Loc Qty

Loc Code

CCK110

10

109733

9

M130388

1

MAY - 7 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

647.1602 Manufactured No

Each 29.0000

1

DAS

6

DAS

9-89

28

9-89

647 1602

Doubler Assembly

**

DAS

27

9-89

Location

Loc Qty

Loc Code

CCK107

29

92067

2

92479

4

M130388

23

647.1811 Manufactured No

Each 56.0000

2

DAS

DAS

6

28

9-89

9-89

647 1811

Spacer

**

DAS

27

9-89

Location

Loc Qty

Loc Code

CCK108

56

92009

3

92072

12

92540

2

93341

6

M130388

33

647.1812 Manufactured No

Each 350.0000

13

DAS

6

DAS

28

9-89

9-89

647 1812

Shim

**

DAS

27

9-89

Location

Loc Qty

Loc Code

CCK107

274

92073

77

M130388

197

CCK108

76

92010

13

92490

14

93192

49

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

647.3201 Manufactured No

Each 9.0000 1

647 3201

Grounding Cable Assembly

DAS
27
9-89

Location

Loc Qty

Loc Code

cck111

9

123417

8

M130388

1

f

80.5000

1.5

**

DAS
28
9-89

601.3011 Manufactured No

601 3011

P-Seal

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK095

51.5

91709

50

M130388

1.5

CCK099

29

M130388

29

Each

58.0000

1

**

DAS
28
9-89

MS21266-2N Purchased No

MS21266-2N

Grommet

Location

Loc Qty

Loc Code

ST294

58

123900

40

M130388

18

Each

32.0000

2

**

DAS
28
9-89

AN44-12A Purchased No

AN44-12A

Eyebolt

Location

Loc Qty

Loc Code

ST339

32

124131

8

124263

20

m130388

4

**

DAS
28
9-89

DAS
27
9-89

MAY 27 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

AN665-34R

Purchased No

Each 23.0000

4

AN665-34R

Clevis

**

133134

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST330

23

M134202

23

601.3006

Manufactured No

Each 24.0000

2

601 3006

Camloc Receptacle

**

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK098

24

M130388

24

601.3005

Manufactured No

Each 4.0000

2

601 3005

Camloc Retainer

**

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK098

4

M130388

4

601.3004

Manufactured No

Each 24.0000

2

601 3004

Camloc Stud

**

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK098

24

M130388

24

MAY 27 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		☐ OTHER : _____			

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146294

647 7304

Required Date: 6/27/2016

Required Qty: 1.00

12

MS21047-3

DAS
6
9-89

DAS
28
9-89

45
7
-29

Loc Code

12.

50

217.0000

2

AN3-4A

DAS
 6
 9-89

DAS
 28
 9-89

DAS
27
9-89

Loc Code

7

217

99.0000

4

AN3-11A

DAS
6 DAS
9-89 28
9-8

DAS
27
9-89

Loc Code

99

99

45.0000

1

AN4CH6A

DAS 28
6 9-89
9-89

DAS
27
9-89

Loc Code

45

20

3

20

2

MAY 27 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		FAULT CATEGORY Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mis-labeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER : ☐									

Picklist Print

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Monday, May 16, 2016 11:10:31 AM

Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

AN4C7A Purchased No

Each 40.0000 4

AN4C7A

BOLT

**

~~127323~~

DAS

6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

OVER002

20

m133523

20

ST345

20

m133990

20

4

5

MS21042-08

MS21042L08

Purchased

No

Each 33.0000

MS21042-08

USE MS21042L08

**

134376

DAS

6

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

35

MS21042-3

MS21042L3

Purchased

No

Each 18.0000

MS21042-3

Nut / use MS21042L3

**

134634

DAS

28

9-89

Location

Loc Qty

Loc Code

ST304

18

M129682

18

DAS

6

9-89

DAS

27

9-89

MAY 27 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Page 13

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Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

Each

1,207.000

4

MS21042L 4

Locknut

**

M1333

DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

GA

187

m133769

187

OVER007

500

m134676

500

ST303

423

m134606

423

ST305

97

m130922

97

DAS
6
9-89

DAS
27
9-89

AN316C4R

Purchased

No

Each

47.0000

4

AN316C4R

NUT

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST331

47

m133234

39

m133523

8

DAS
27
9-89

647.8510

Purchased

No

Each

101.0000

20

647 8510

Insert

**

DAS
6
9-89 DAS
28
9-89

Location

Loc Qty

Loc Code

cck116

101

M130388

101

20

DAS
27
9-89

647.8511

Purchased

No

Each

8.0000

4

647 8511

Insert

**

DAS
28
9-89 DAS
6
9-89

Location

Loc Qty

Loc Code

ccck116

8

M130388

8

4

DAS
27
9-89

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MAY 27 2016
Page 13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

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Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

647.8512

Purchased

No

Each

18.0000

2

DAS

6

DAS

9-89

28

9-89

647 8512

Insert

DAS

27

9-89

Location

Loc Qty

Loc Code

cck116

18

M130388

18

Each

401.0000

4

DAS

6

DAS

9-89

28

9-89

MS21042L5

Purchased

No

MS21042L5

Nut

Location

Loc Qty

Loc Code

GA

101

m127813

101

OVER007

100

m134509

100

ST303

200

m134055

7

m134567

93

m134676

100

MS27039-08-07

Purchased

No

MS27039-08-07

SCREW

Each

153.0000

1

DAS

28

DAS

6

9-89

Location

Loc Qty

Loc Code

ST278

153

m130388

3

m131317

50

m132035

100

DAS

27

9-89

MAY 27 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

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Page 15

Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-13

Purchased

No

Each

226.0000

4

MS27039-08-13

Screw

**

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST278

226

124326

226

Each

316.0000

3

DAS
6
9-89

MS27039-1-07

Purchased

No

MS27039-1-07

Screw

**

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

304

125654

304

Return2016

1

m127813

1

ST281

11

125654

11

Each

217.0000

12

DAS
6
9-89

MS27039-1-09

Purchased

No

MS27039-1-09

Screw

**

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

36

124859

36

ST280

147

m134167

147

MAY 27 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : _____			

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Work Order ID: 146294

Parent Item: 647.7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

146294

647 7304

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

Each

780.0000

6

DAS

6

DAS

28

9.89

MS27039-1-10

SCREW

**

DAS
27
9.89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

18

m129541

18

over 006

300

m134567

300

OVER007

300

m134676

300

ST280

121

m134370

121

MS27039-1-12

Purchased

No

Each

103.0000

2

DAS

6

DAS

28

9.89

MS27039-1-12

Screw

**

DAS
27
9.89

Location

Loc Qty

Loc Code

over006

50

m134294

50

ST280

53

m133988

53

MAY 27 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER : ☐									

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Work Order ID: 146294

Parent Item: 647.7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

146294

647 7304

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-14

Purchased

No

Each

767.0000

4

MS27039-1-14

Screw

DAS
28
9-89
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

94

120449

94

over006

500

124326

500

ST280

173

124326

173

Each

247.0000

1

DAS
28
9-89
6
9-89

MS27039-1-15

Purchased

No

MS27039-1-15

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

21

m127916

21

ST280

226

m132640

226

Each

376.0000

4

DAS
28
9-89
6
9-89

MS27039-1-16

Purchased

No

MS27039-1-16

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

over006

300

m134294

50

m134502

250

ST2820

76

m134142

76

MAY 27 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval					

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
				Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
				Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
				Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
				Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
				OTHER : ☐			

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Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-17

Purchased

No

Each

201.0000

2

MS27039-1-17

Screw (601.1954)

DAS 28 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

185

120142

36

m127831

149

ST280

16

m127305

16

MS24694-S54

Purchased

No

Each

71.0000

5

MS24694-S54

SCREW

DAS 28 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

71

m134654

21

m134738

50

601.2999

Manufactured

No

Each

72.0000

3

601 2999

Screw

DAS 28 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK098

72

91707

22

93369

50

MAY 27 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

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Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

CCR264SS-3-03

Purchased

No

Each

311.0000

24

CCR264SS-3-03

Rivet

**

DAS
6
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

LG001

159

m128606

29

m134023

130

ST321

152

m134396

152

24
4

CCR274SS-3-03

Purchased

No

Each

129.0000

CCR274SS-3-03

Rivet

**

DAS
6
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST321

129

123785

122

m130388

7

4
3

CR3213-4-2

Purchased

No

Each

218.0000

CR3213-4-2

Cherry Rivet

**

DAS
6
28
9-89
MAY 25 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

192

123301

192

ST319

26

m131340

26

4

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
☐ OTHER : _____					

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Page 20

Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-3

Purchased

No

Each

312.0000

24

CR3213-4-3

Rivet, Cherry

**

DAS
6
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

200

123301

0

m131340

200

CCK004

40

m130388

40

ST319

72

m129541

72

Each

201.0000

16

**

DAS
6
28
9-89

CR3213-4-4

Purchased

No

CR3213-4-4

Rivet, Cherry

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

100

M134654

100

ST319

101

M130388

35

M134376

66

Each

225.0000

8

**

DAS
6
28
9-89

CR3213-4-5

Purchased

No

CR3213-4-5

Rivet

OS

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

100

M129913

100

ST319

125

M129913

125

MAY 25 2016

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Page 20

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

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Page 21

Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-6

Purchased

No

Each

300.0000

17

CR3213-4-6

Rivet

**

DAS
6
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST319

300

M131800

300

17

DAS
6
28
9-89

CR3213-5-3

Purchased

No

Each

212.0000

16

CR3213-5-3

Cherry Rivet

**

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK06

200

m134142

200

ST319

12

m132763

12

16

DAS
28
9-89

CR3213-5-4

Purchased

No

Each

306.0000

12

CR3213-5-4

Cherry Rivet

**

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK004

236

m128179

100

m128199

100

m130388

36

ST319

58

123785

58

WA003

12

117543

12

12

DAS
6
28
9-89

MAY 25 2016

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Page 21

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coor. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																											
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																								
Description Work Order Deviation				Disposition				Completed By																																																							
								Lead hand / Supervisor Approval Verification																																																							
								QC / QA Coordinator Approval																																																							
Root Cause		FAULT CATEGORY																																																													
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____	
Misidentified ☐	Past Due ☐																																																														

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Page 22

Work Order ID: 146294

Parent Item: 647.7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

146294

647 7304

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

CR3522-4-3	Purchased	No	Each	124.0000	8	DAS 6 9-89	DAS 28 9-89
CR3522-4-3							
Rivet							

DAS
27
9-89

Location

Loc Qty

Loc Code

ST318

124

124876

100

m130388

24

Each

95.0000

2

CR3212-5-6

Purchased

No

CR3212-5-6

Cherry Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK005

91

124259

91

ST320

4

m130388

4

Each

2,045.000

25

NAS1149FN832P

Purchased

No

NAS1149FN832P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

475

M133316

16

M133769

459

ST260a

1200

M134257

1200

ST264

370

M133709

370

DAS
6
9-89

MAY 25 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification ☐		Pressure/Forced ☐	☐	Temperature/Cure ☐	
Design ☐	☐	Operator ☐		Bending ☐	☐	Set-up ☐	
Doc/Data ☐	☐	Offset/Setup ☐		Centre Not Concentric ☐	☐	BOM/Route ☐	
Equip/Tooling ☐	☐	Supplier ☐		Cracks ☐	☐	Broken/Damage/Defect ☐	
Handling/Pre ☐	☐	Training ☐		Crimp/Kink/Ripple/Wave ☐	☐	Inspection Incomplete/Unqualified ☐	
Material ☐	☐	Use for Testing ☐		Cuffs ☐	☐	Contamination ☐	
Internal Transport ☐	☐	Poor Information ☐		Crushing ☐	☐	Countersink ☐	
Tribal Knowledge ☐	☐	Rushing ☐		Heat Treat ☐	☐	Cut Too Short ☐	
LOA ☐	☐	Product Improvement ☐		Wave/Twist in Tube ☐	☐	Instructions Incomplete/Unclear ☐	
Substation ☐	☐	Process Improvement ☐		Marks/Chatter ☐	☐	Drill Holes ☐	
Past Expiry Date ☐	☐	Manufacturing Process ☐		OTHER : _____			
Misidentified ☐	☐	Past Due ☐					

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Page 23

Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Each

2,960.000

85

NAS1149F0332P

Washer

**

~~135137~~ X 12

DAS
6 DAS
9-89 28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

312

m133709

312

ST262

2648

m134257

648

m134676

2000

85

NAS1149C0432R

Purchased

No

Each

1,761.000

12

NAS1149C0432R

WASHER

**

DAS
6 DAS
9-89 28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

1344

m125807

427

m134676

917

ST266

417

m134073

417

12

NAS1149F0532P

Purchased

No

Each

2,450.000

4

NAS1149F0532P

Washer

**

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST260a

600

m133725

600

ST262

1850

18057

1840

m130388

10

4

DAS
6
9-89

MAY 25 2016

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation		Disposition			

Root Cause		FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐			
Misidentified ☐	Past Due ☐				

Picklist Print

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Page 24

Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

601.2375 Manufactured No

Each 74.0000 3

601 2375

Washer

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK096

74

91708

74

Each 24.0000

600.1012

Purchased No

600 1012

Sealant PR1425B2 (#654 sgm)

10/20/16

DAS
27
9-89

Location

Loc Qty

Loc Code

cck017

23

m134167

5

m134249

8

m134634

10

cck018

1

m131364

1

10/30/2015

601.2045

Purchased No

601 2045

RTV (LOCTITE 598)McMaster p/n: 6641A41

Location

Loc Qty

Loc Code

CCK096

7

m133588

7

GA

8

m134260

8

DAS
27
9-89

MAY 17 2016

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Page 24

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

600.0991 Purchased No

Each 25.0000

1

DAS
6
9-89

600 0991

MAGNOBOND 6398 PART B

DAS
28
9-89

exp. 10/2016

DAS
27
9-89

Location

Loc Qty

Loc Code

CA002

12

m134167

12

CA2

12

m134249

12

PKG

1

m133800

1

Each

25.0000

1

DAS
6
9-89
DAS
28
9-89

600.0990 Purchased No

600 0990

Magnabond 6398 Part A

exp. 10/2016

DAS
27
9-89

Location

Loc Qty

Loc Code

CA002

12

M134167

12

CA2

12

M134249

12

PKG

1

M133800

1

Each

5.0000

1

DAS
6
9-89
DAS
28
9-89

647.7919 Manufactured No

647 7919

Shim

DAS
27
9-89

Location

Loc Qty

Loc Code

cck116

5

93337

3

M130388

2

Each

0.0000

1

DAS
28
9-89

647.7823 Manufactured No

647 7823

Cross Bracket Aft

DAS
27

JUN 07 2016

MAY 17 2016

44665 sf

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

647.2114
****647 2114***
Upper U Channel
647.1404
****647 1404***
Upper Cutter Assembly
MS27039-08-27
****MS27039-08-27***
Screw

DAS
27
9-89

Manufactured No

Each 0.0000

**

Manufactured No

Each 0.0000

**

Purchased No

Each 50.0000

**

Location

Loc Qty

Loc Code

ST277

50

m134702

50

Each

1,028.000

**

MS21042L08

DAS
27
9-89

Purchased

No

MS21042L 08

Nut

Location

Loc Qty

Loc Code

GA

319

m133134

3

m134063

316

ST303

537

m133922

37

m134574

200

m134654

300

ST308

172

m134376

172

DAS
27
9-89

B/47224 DAS 28 9-89

1 147210 DAS 6 9-89 9/02/82 Nrf

5

DAS 28 9-89

5

5

132930

DAS 28 9-89 MAY 25 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : ☐			
Misidentified ☐		Past Due ☐					

Picklist Print

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Page 27

Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

CR3523-4-3

Purchased

No

Each

136.0000

4

CR3523-4-3

Rivet

DAS 6 28
9-89 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

CCK004

91

m129764

91

ST318

45

124876

45

Each

242.0000

24

DAS 6 28
9-89 9-89

CR3523-4-4

Purchased

No

CR3523-4-4

Rivet

DAS 27
9-89

Location

Loc Qty

Loc Code

CCK004

100

m127255

100

ST318

142

119717

10

124259

84

m130388

48

Each

0.0000

87

DAS 6 28
9-89 9-89

CR3523-5-3

Purchased

No

CR3523-5-3

Rivet

DAS 27
9-89

647.1702

Manufactured

No

Each

3.0000

27

647 1702

Skid Deflector Assembly

DAS 27
9-89

Location

Loc Qty

Loc Code

CCK033

3

141003

3

DAS 6 28
9-89 9-89

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Shop Packet Print

Page 27

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Monday, May 16, 2016 11:10:31 AM

Page 28

Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

LN9025-0820K

Purchased

No

Each

48.0000

8

I N9025-0820K

Lock Tab Washer

DAS
6
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST563

48

M128007

48

LN9037-08018

Purchased

No

Each

3.0000

8

I N9037-08018

Screw

DAS
6
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST563

3

M132173

3

93635A212

Purchased

No

Each

50.0000

4

93635A212

Bolt

DAS
6
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST558

50

m134700

50

MS27039-1-18

Purchased

No

Each

1,812.000

2

MS27039-1-18

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

251

123522

55

124326

196

over006

1373

124326

1373

ST280

188

124326

188

DAS
27
9-89

DAS
6
9-89

MAY 25 2016

Monday, May 16, 2016 11:10:32 AM

Shop Packet Print

Page 28

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coor. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Monday, May 16, 2016 11:10:32 AM

Page 29

Work Order ID: 146294

146294

Parent Item: 647.7304

647 7304

Parent Item Name: EC135 T2/P2 Cable Cutters System

Start Date: 6/22/2016

Required Date: 6/27/2016

Start Qty: 1.00

Required Qty: 1.00

601.3902

Manufactured No

Each

4.0000

2

****601 3902***
Eye Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

cck101

4

142359

4

2

DAS
6
9-89

DAS
27
9-89

MAY 25 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

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NOTES: UNLESS OTHERWISE SPECIFIED

- 1 AFTER INSTALLATION, APPLY F/N 90 A/R TO FILL GAPS AND FILLET EDGES.
- 2 APPLY F/N 91 TO FAYING SURFACES.
- 3 DELETED.
- 4 MATCH DRILL HOLES THROUGH F/N 26 or F/N 98 AND FUSELAGE.
- 5 SHIM GAP BETWEEN F/N 1 & 26 AS NEEDED.
- 6 AT CUSTOMERS OPTION, INSTALL F/N 96 BY MATCH DRILLING ONTO F/N 1 FOR KIT P/N 647.7301 or F/N 99 FOR KIT P/N 647.7304.
- 7 647.7301 INSTALLATION FOR EC135.
- 8 647.7304 INSTALLATION FOR EC135 T2/P2.
- 9 EXCEPT WHERE NOTED, INSTALLATION FOR 647.7304 SAME AS 647.7301.

				8		8	95	601.1097	WASHER	NAS1149FD463P	
	1	1			1	1	94	647.7919	SHIM		
	1	1		1	1	1	93	600.0990	MAGNOBOND 6398 PART A		
	1	1		1	1	1	92	600.0991	MAGNOBOND 6398 PART B		
	1	1	1	1	1	1	91	601.2045	RTV	LOCIRE 998	
	1	1	1	1	1	1	90	600.1012	SEALANT	PR-145 CLASS B	
	3	3		3	3	3	89	601.2375	WASHER		
	2	3	4	2	3	4	88	601.3126	WASHER	NAS1149F0532P	
	12		12	8		8	87	601.3663	WASHER	NAS1149CD432R	
	8	77	85	12	74	86	86	601.1607	WASHER	NAS1149F0332P	
	23	2	25	12	2	14	85	601.2764	WASHER	NAS1149F0832P	
	2	2		2	2	84	601.3136	CHERRY RIVET	CR3212-5-6		
	8	8		8	8	83	601.3215	CHERRY RIVET	CR3522-5-3		
	8	8		8	8	82	601.3216	CHERRY RIVET	CR3522-4-3		
	12	12		12	12	81	601.2481	CHERRY RIVET	CR3213-5-4		
	16	16		16	16	80	601.2020	CHERRY RIVET	CR3213-5-3		
	17	17		17	17	79	601.2991	CHERRY RIVET	CR3213-4-6		
	8	8		8	8	78	601.1183	CHERRY RIVET	CR3213-4-5		
	16	16		16	16	77	601.1915	CHERRY RIVET	CR3213-4-4		
	24	24		24	24	76	601.0790	CHERRY RIVET	CR3213-4-3		
	4	4		4	4	75	601.1604	CHERRY RIVET	CR3213-4-2		
	4	4		4	4	74	601.1983	NUTPLATE RIVET	CR3213-4-1		
	24	24		24	24	73	601.2207	NUTPLATE RIVET	CR3213-4-0		
	3	3		3	3	72	601.2999	SCREW	MS27039-1-17		
	5	5		6	6	71	601.2829	SCREW	MS27039-1-16		
	2	2		2	2	70	601.1954	SCREW	MS27039-1-15		
	4	4		4	4	69	601.2637	SCREW	MS27039-1-14		
	1	1		1	1	68	601.3012	SCREW	MS27039-1-13		
	4	4		4	4	67	601.1622	SCREW	MS27039-1-12		
	2	2		2	2	66	601.1953	SCREW	MS27039-1-11		
	6	6		6	6	65	601.1365	SCREW	MS27039-1-10		
	12	12		12	12	64	601.3069	SCREW	MS27039-1-09		
	3	3		3	3	63	601.2198	SCREW	MS27039-1-08		
			2		2	62	601.3137	SCREW	MS27039-0816		
	4	4	4		4	61	601.2988	SCREW	MS27039-0813		
	1	1		1	1	60	601.2525	SCREW	MS27039-0807		
	4	4		4	4	59	601.3127	LOCKNUT	MS21042-5		
	2	2		2	2	58	647.8512	INSERT			
	4	4		4	4	57	647.8511	INSERT			
	20	20		18	18	56	647.8510	INSERT			
	4	4	4		4	55	601.3128	NUT	AN316C4R		
	4	4	8		8	54	601.3209	LOCKNUT	MS21042-14		
	4	31	35	4	30	53	601.2943	LOCKNUT	MS21042-3		
	4	1	5	6	1	52	601.2973	LOCKNUT	MS21042-08		
				4	4	51	601.3002	BOLT	NAS6604-66		
				4	4	50	601.3130	BOLT	NAS6603-16		
				4	4	49	601.1500	BOLT	NAS6603-12		
	4		4	4	4	48	601.2669	BOLT	ANHC7A		
	1	1		1	1	47	601.1324	BOLT	AN4CH6A		
	4		4	4	4	46	601.2826	BOLT	AN3-11A		
	2	2		2	2	45	601.2823	BOLT	AN3-4A		
	12	12		12	12	44	600.0795	NUTPLATE	MS21047-3		
	2	2		2	2	43	601.3004	CAMLOC STUD			
	2	2		2	2	42	601.3005	CAMLOC RETAINER			
	2	2		2	2	41	601.3006	CAMLOC RECEPTACLE			
	4		4	4	4	40	601.3119	CLEVIS	AN665-34R		
7306	7305	7304	7303	7302	7301	FIND #	PART #	DESCRIPTION	MATL	SPEC	

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	LAST PROTOTYPE REVISION: P04		
2	INITIAL RELEASE	01/13/09	P. BRAVO
3	INCORPORATED ECHS 00798, 03200, 03044, 03066	02/16/11	P. BRAVO
4	INCORPORATED ECHS 05325	03/09/16	P. BRAVO

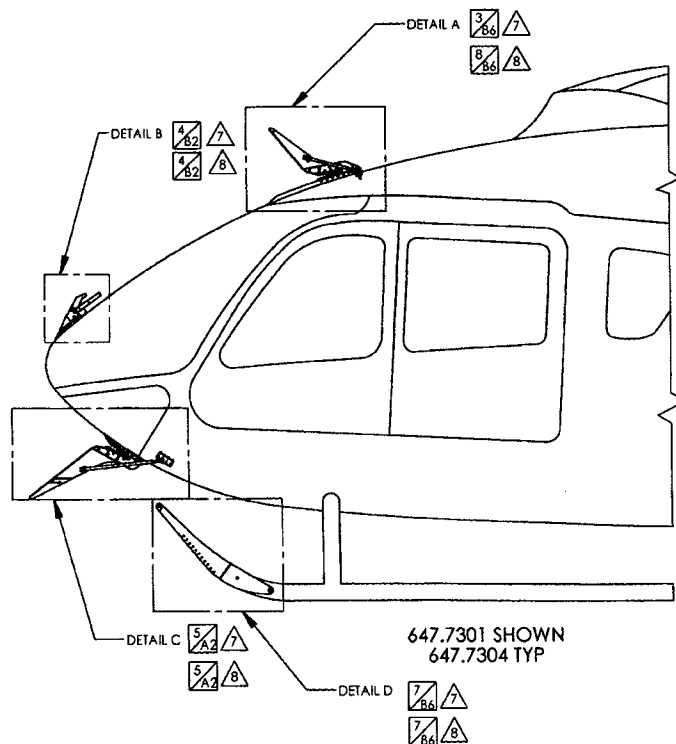
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		2		2	38	601.3121	EYE BOLT	AN44-5A		
1	1	1	1	1	37	601.3007	GROMMET	MS21266-2N		
1	1	1	1	1	36	601.3011	P-SEAL			
	1	1		1	35	647.3201	GROUNDING CABLE ASSY			
			2	2	34	647.2511	NUT			
				4	4	33	647.2510	SLEEVE		
	13	13		13	32	647.1812	SHIM			
	2	2		2	31	647.1811	SPACER			
	1	1		1	30	647.1602	DOUBLER ASSY			
	1	1		1	29	647.1914	BRACKET			
	1	1		1	28	647.7822	EYE BOLT FITTING RH			
	1	1		1	27	647.7821	EYE BOLT FITTING LH			
				1	26	647.7818	MOUNTING CHANNEL			
				1	25	647.7820	CROSS BRACKET AFT			
	1	1		1	24	647.7819	CROSS BRACKET FWD			
	1	1		1	23	647.7918	BRACKET			
	1	1		1	22	647.7917	BRACKET			
	2	2		2	21	647.7916	BRACKET			
	1	1		1	20	647.7915	BRACKET			
	1	1		1	19	647.7914	BRACKET			
	2	2		2	18	647.7913	DOUBLER			
	4	4		4	17	647.7912	CLIP			
	2	2		2	16	647.7911	BRACKET			
	2	2		2	15	647.7910	ANGLE BACKET			
4	4	4		4	14	647.0112	STRUT BRACKET			
	1	1		1	13	647.1810	NOSE DOOR DOUBLER			
	1	1		1	12	647.1818	NOSE DOOR SPACER			
2		2	2		11	647.7701	STRUT ASSY			
2		2	2		10	647.7702	STRUT ASSY			
	1	1		1	9	647.1815	GUSSET, RH			
	1	1		1	8	647.1814	GUSSET, LH			
	1	1		1	7	647.1915	SUPPORT ANGLE			
	1	1		1	6	647.1913	TEE			
	1	1		1	5	647.1610	WIPER DEFLECTOR, FWD			
	1	1		1	4	647.1601	WIPER DEFLECTOR ASSY, AFT			
			2		3	647.1701	SKID DEFLECTOR ASSY			
1		1	1		2	647.7501	LOWER CUTTER ASSY			
			1		1	647.7401	UPPER CUTTER ASSY			
X						647.7306	T2/P2 REMOVABLE PROVISIONS KIT			
	X					647.7305	T2/P2 FIXED PROVISIONS KIT			
		X				647.7304	EC135 T2/P2 CABLE CUTTERS KIT			
			X			647.7303	REMOVABLE PROVISIONS KIT			
				X		647.7302	FIXED PROVISIONS KIT			
					X	647.7301	EC135 CABLE CUTTERS KIT			
7306	7305	7304	7303	7302	7301	FIND	PART #	DESCRIPTION	MAT'L	SPEC

QTY		NEXT ASSY (S)		ORIGINAL DATE (DD-MY-YY) 1/2/09 DRAWN BY A. GUAN CHECKED BY D. BARKER DRAWING APPROVAL P. BRAVO 01/13/09 CONTRACT NO.	DART AEROSPACE APICAL INDUSTRIES INC. DBA DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SDR CAGE CODE B 07M26		DWG. NO. 647.7300	REV. B
SCALE NONE		SHEET 1 OF 8			

w/o 146294

RM 16/05/19

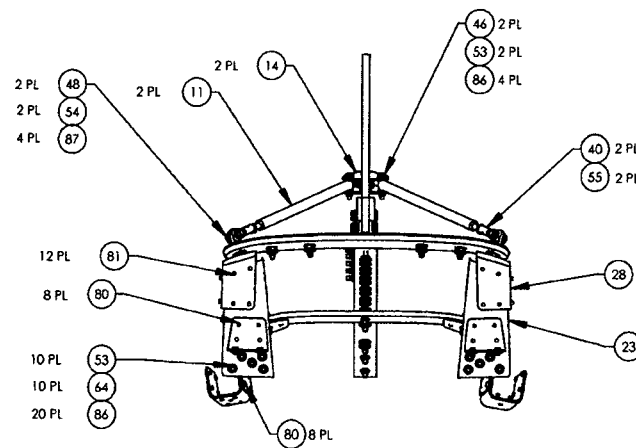
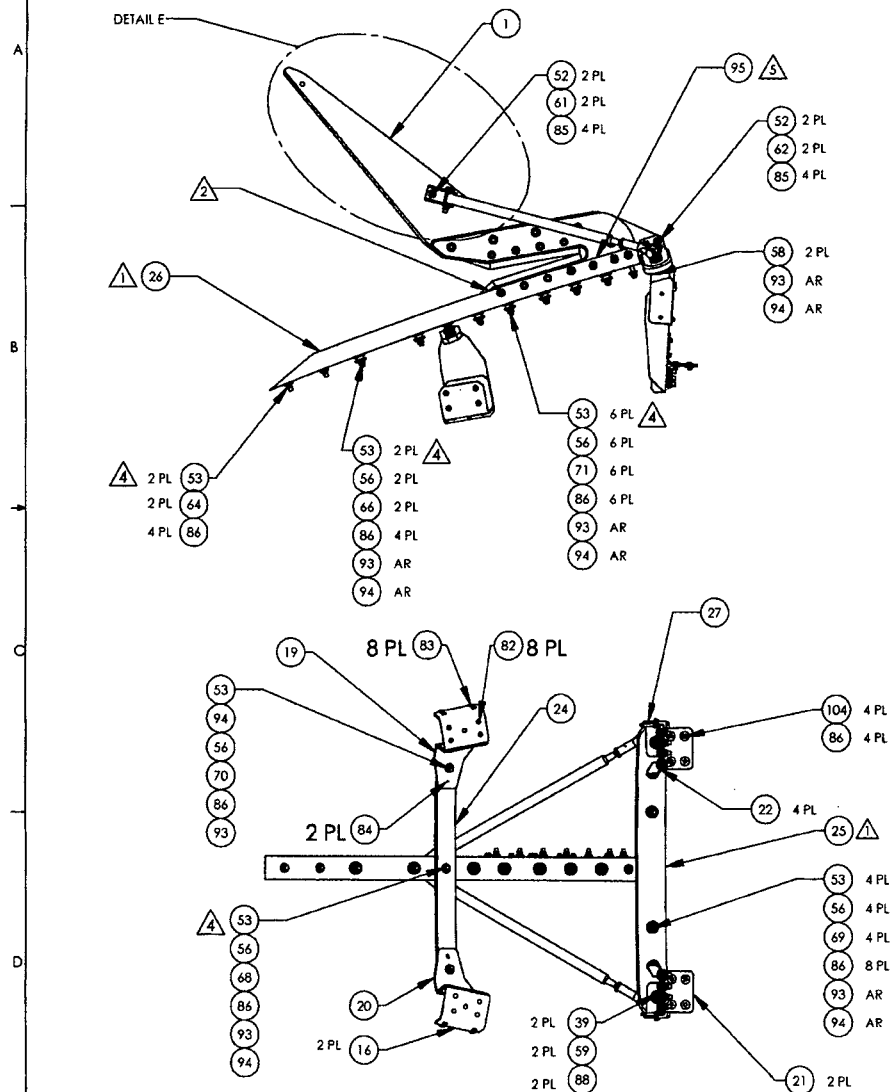
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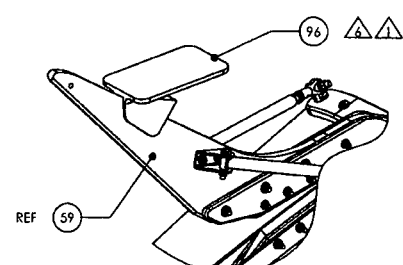
2		2				110	601.3902	EYE BOLT		
	2	2				109	601.2910	SCREW	MS27039-1-18	
4		4				108	601.3963	BOLT	93435A212	
8		8				107	601.3654	BOLT	UN9037-08018	
8		8				106	601.3655	LOCK WASHER	UN9025-0820K	
2		2				105	647.1702	SKID DEFLECTOR ASSY		
	8	8		8	8	104	601.3214	CHERRY RIVET	CR3523-5-5	
	24	24		24	24	103	601.3213	CHERRY RIVET	CR3523-4-4	
	4	4		4	4	102	601.3212	CHERRY RIVET	CR3523-4-3	
5		5				101	601.1541	LOCKNUT	MS21042106	
5		5				100	601.3962	SCREW	MS27039-08027	
1		1				99	647.1404	CUTTER ASSY (UPPER)		
	1	1				98	647.2114	UPPER U CHANNEL		
	1	1				97	647.7823	CROSS BRACKET AFT		
1		1	1		1	96	647.5701	GPS MOUNT KIT		
7306	7305	7304	7303	7302	7301	7300	647.7300	EC135 CABLE CUTTERS KIT		

ORIGINAL DATE 11/01/05		SHEET NO. 1	
DRAWN BY A. GUAN		CHECKED BY D. BARBER	
DRAWING APPROVAL 11/13/10		CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		DART AEROSPACE 3030 ENTERPRISE CT., SUITE A VISTA, CA, 92081 (760)-724-5300 EC135 CABLE CUTTERS KIT SEE CAGE CODE 07M26 DWG. NO. 647.7300 REV. B SCALE NONE SHEET 2 OF 8	

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DETAIL A

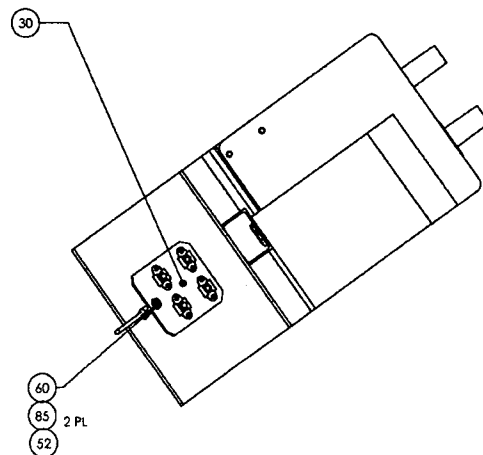
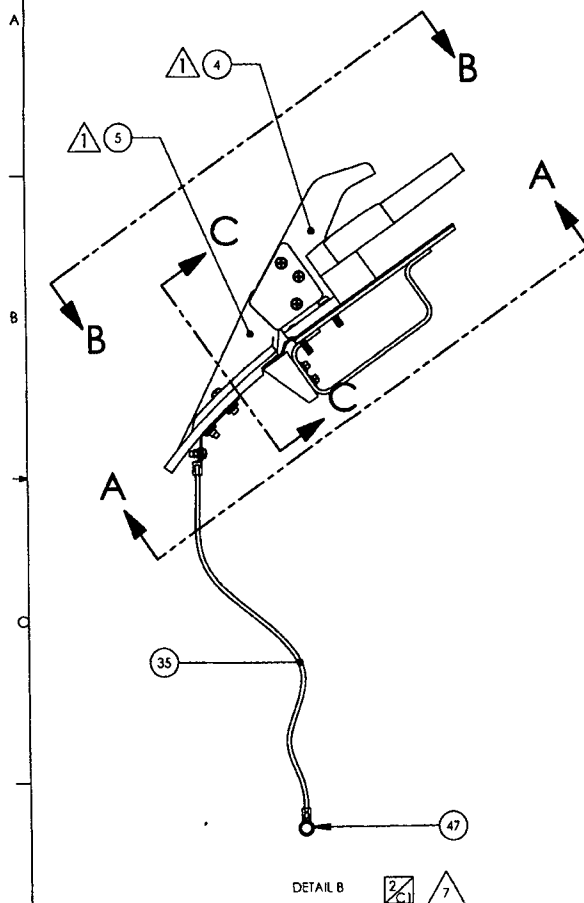


DETAIL E
TYPICAL GPS MOUNT KIT INSTALLATION

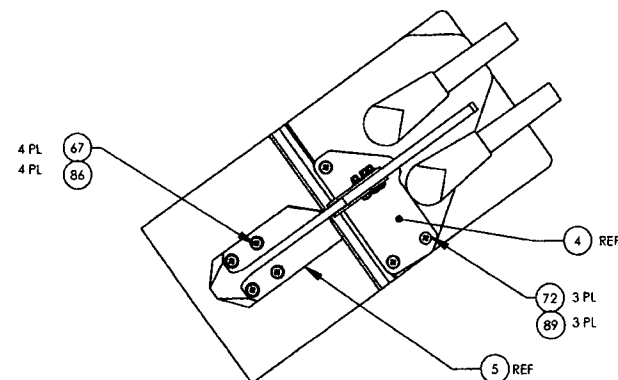
ORIGINAL DATE 11/24/09		3030 ENTERPRISE CT., SUITE A, VISTA, CA. 92081 (760)-724-5300	
DRAWN BY A. DESAI		CHECKED D. DESAI	
DRAWING APPROVAL P. BRAVO		APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
CONTRACT NO.		EC135 CABLE CUTTERS KIT	
SEE B	CAGE CODE 07M16	DWG. NO. 647.7300	REV. B
SCALE NONE		SHEET 3 OF 8	

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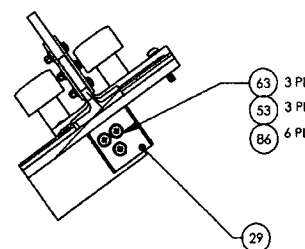
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SECTION A-A



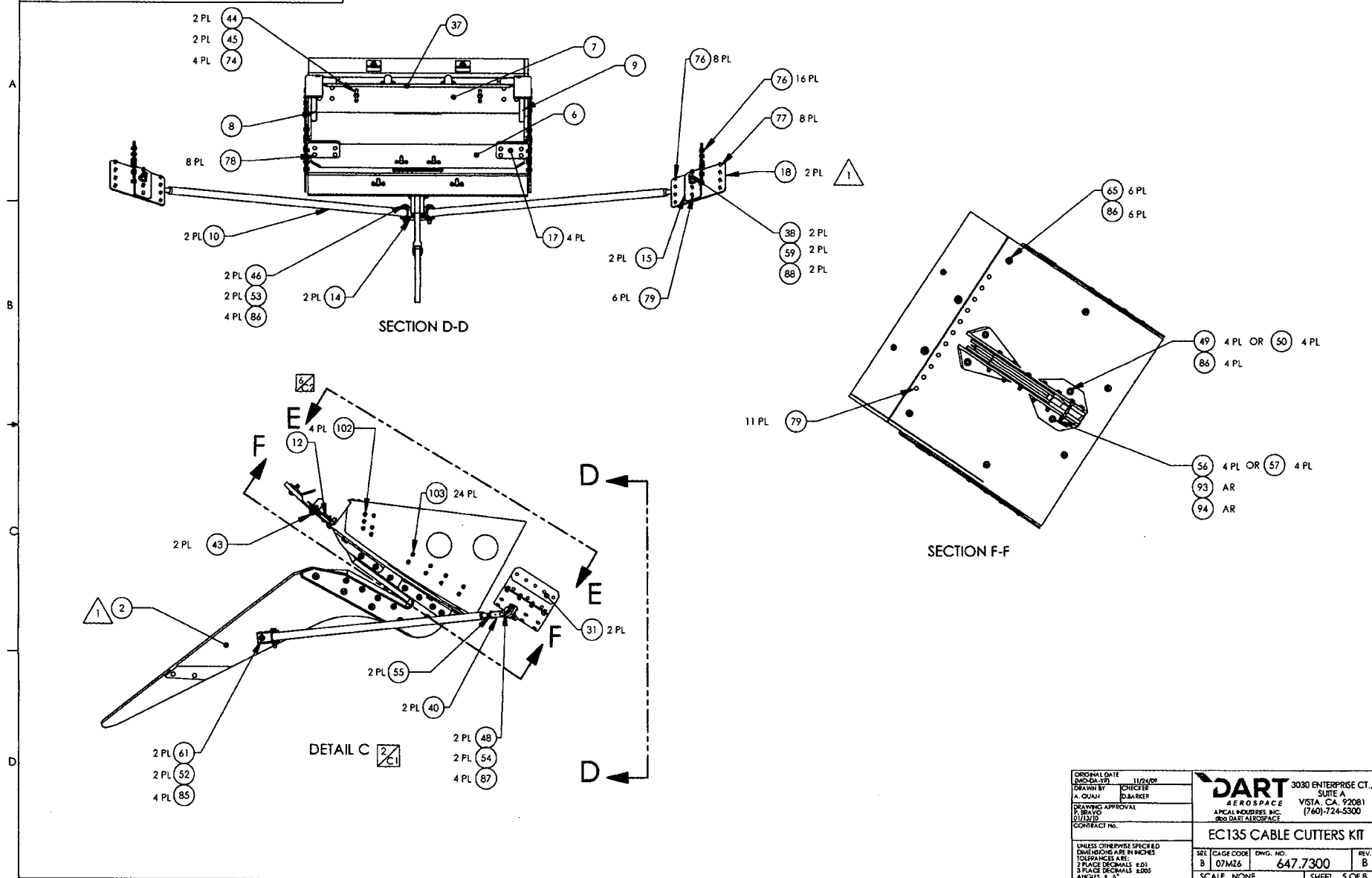
SECTION B-B



SECTION C-C

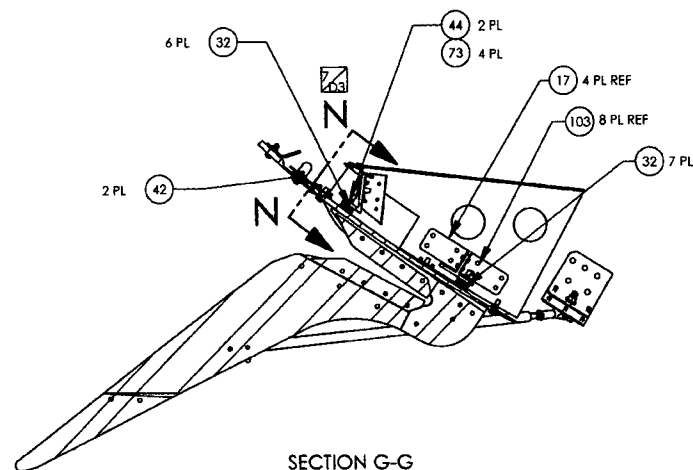
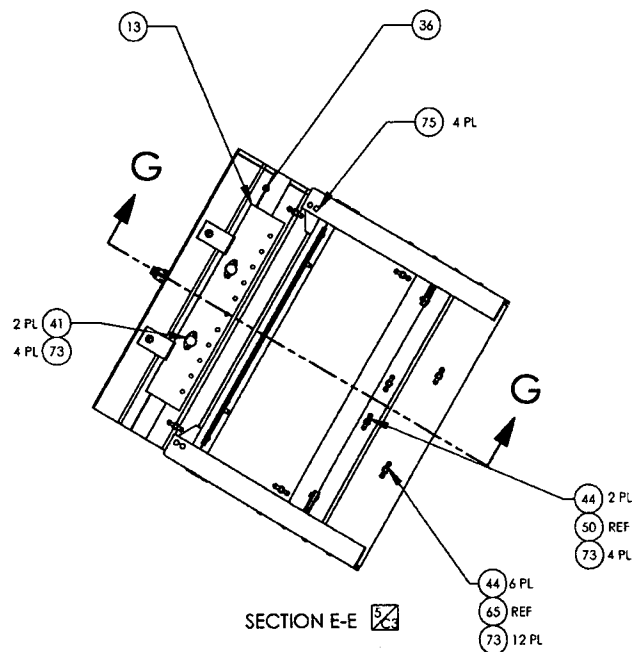
ORIGINAL DATE 11/24/02		3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300	
DRAWN BY A. GUAN	CHECKED D. BARBER	APICAL INDUSTRIES INC. DBA DART AEROSPACE	
DRAWING APPROVAL P. BRAYO 5/13/10		CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		EC135 CABLE CUTTERS KIT	
SER B	CAGE CODE 07M26	DWG. NO. 647.7300	REV. B
SCALE NONE		SHEET 4 OF 8	

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ORIGINAL DATE 11/24/00		DRAWN BY A. QUINN		CHECKED BY D. BARBER	
DRAWING APPROVAL P. BRAY		CONTRACT NO.		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SHEET B	CAGE CODE 07M26	DWG. NO. 647.7300	REV. B
SCALE NONE		SHEET 5 OF 8			

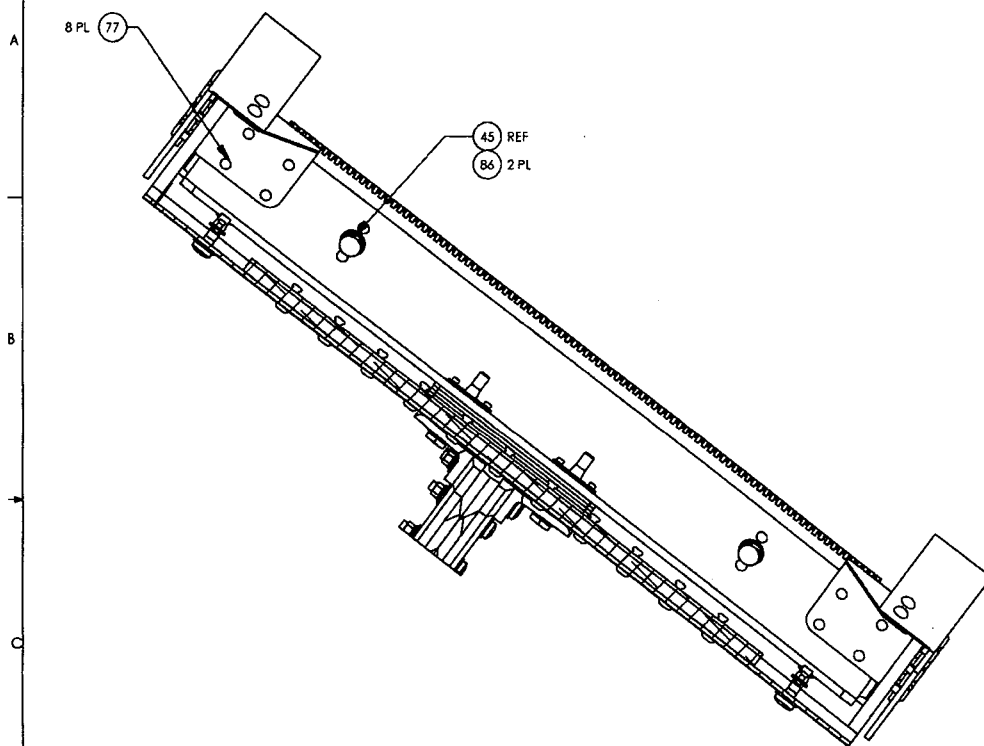
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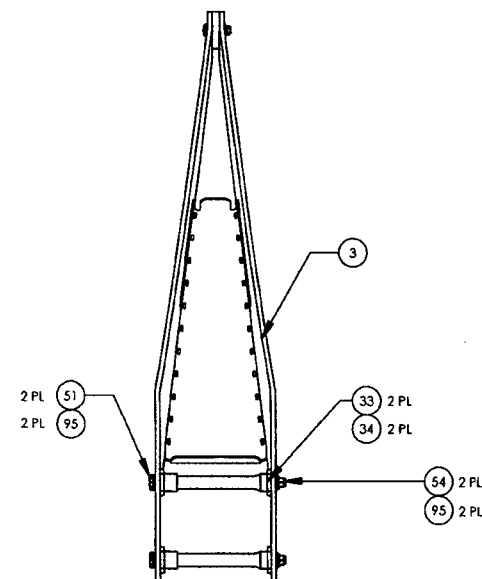
ORIGINAL DATE 11/24/09		3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300	
DRAWN BY A. GUAN		CHECKED BY D. BAPEER	
DRAWING APPROVAL R. BRAVO 01/19/10		APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
CONTRACT NO.		EC-135 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SEE CAGE CODE B 07M26	DWG. NO. 647.7300
		SCALE NONE	REV. B SHEET 6 OF 8

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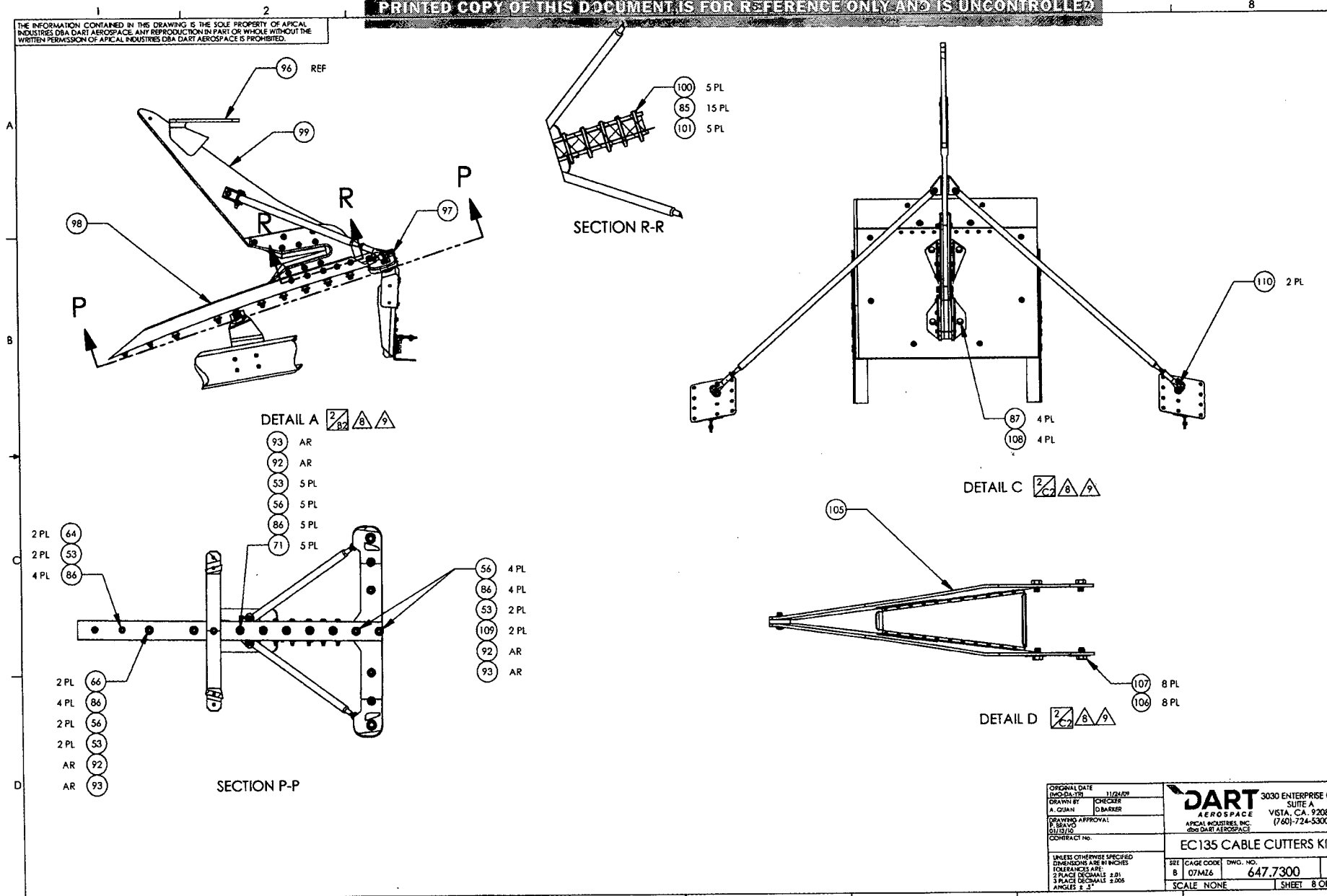
INBOARD



DETAIL D $\frac{2}{DI}$
TYP 2 PL $\frac{1}{A}$

ORIGINAL DATE 04/02/09		11/24/09	
DRAWN BY A. DASH		CHECKED D. BARKER	
DRAWING APPROVAL P. BRAY		APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
CONTRACT No.		3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$		DART AEROSPACE EC135 CABLE CUTTERS KIT	
SIZE B	CAGE CODE 07M26	QWC. NO. 647.7300	REV. B
SCALE NONE		SHEET 7 OF 8	

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ORIGINAL DATE DWG-DA-701 01/24/09		DART 3030 ENTERPRISE CT., SUITE A AEROSPACE VISIA, CA. 92081 APICAL INDUSTRIES, INC. (760) 724-5300 DBA DART AEROSPACE	
DRAWN BY A. QJAHN		CHECKED D. BARKER	
DRAWING APPROVAL P. SALVO 01/15/10		CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		SIZE B	CAGE CODE 07M26
		DWG. NO. 647.7300	REV. B
		SCALE NONE	SHEET 8 OF 8

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NOTES: UNLESS OTHERWISE SPECIFIED

- 1 AFTER INSTALLATION, APPLY F/N 90 A/R TO FILL GAPS AND FILLET EDGES.
- 2 APPLY F/N 91 TO FAYING SURFACES.
- 3 DELETED.
- 4 MATCH DRILL HOLES THROUGH F/N 26 or F/N 98 AND FUSELAGE.
- 5 SHIM GAP BETWEEN F/N 1 & 26 AS NEEDED.
- 6 AT CUSTOMERS OPTION, INSTALL F/N 96 BY MATCH DRILLING ONTO F/N 1 FOR KIT P/N 647.7301 or F/N 99 FOR KIT P/N 647.7304.
- 7 647.7301 INSTALLATION FOR EC135.
- 8 647.7304 INSTALLATION FOR EC135 T2/P2.
- 9 EXCEPT WHERE NOTED, INSTALLATION FOR 647.7304 SAME AS 647.7301.

				8		8	95	601.1097	WASHER	NAS1149F043P		
	1	-1		1	1	94	647.7919	SHIM				
	1			1	1	93	600.0990	MAGNOBOND 6398 PART A				
	1	1		1	1	92	600.0991	MAGNOBOND 6398 PART B				
1		-1	-1	1	1	91	601.2045	RTV	LOC181 8P8			
1	1	-1		1	1	90	600.1012	SEALANT	PR 1455 CLASS B			
	3	-3		3	3	89	601.2375	WASHER				
2	3	-4	-2	-3	4	88	601.3126	WASHER	NAS1149F0532P			
12		-12	8		8	87	601.3663	WASHER	NAS1149C0432R			
8	77	-85	-12	74	86	86	601.1607	WASHER	NAS1149F0332P			
23	2	-25	-12	2	14	85	601.2764	WASHER	NAS1149F0832P			
	2	-2		2	2	84	601.3136	CHERRY RIVET	CR3212-5-6			
	8	-8		8	8	83	601.3215	CHERRY RIVET	CR3522-5-3			
	8	-8		8	8	82	601.3216	CHERRY RIVET	CR3522-4-3			
	12	-12		12	-12	81	601.2481	CHERRY RIVET	CR3213-5-4			
	16	16		16	16	80	601.2020	CHERRY RIVET	CR3213-5-3			
	17	-17		17	17	79	601.2991	CHERRY RIVET	CR3213-4-6			
	8	-8		8	8	78	601.1183	CHERRY RIVET	CR3213-4-5			
	16	-16		16	16	77	601.1915	CHERRY RIVET	CR3213-4-4			
	24	-24		24	24	76	601.0790	CHERRY RIVET	CR3213-4-3			
	4	-4		4	4	75	601.1604	CHERRY RIVET	CR3213-4-2			
	4	-4		4	4	74	601.1983	NUTPLATE RIVET	CCR27455-3-03			
	24	-24		24	24	73	601.2207	NUTPLATE RIVET	CCR26455-3-03			
	3	-3		3	3	72	601.2999	SCREW				
	5	-5		6	6	71	601.2829	SCREW	MS2246P4554			
	2	-2		2	2	70	601.1954	SCREW	MS27039-1-17			
	4	-4		4	4	69	601.2637	SCREW	MS27039-1-16			
	1	-1		1	1	68	601.3012	SCREW	MS27039-1-15			
	4	-4		4	4	67	601.1622	SCREW	MS27039-1-14			
	2	-2		2	2	66	601.1953	SCREW	MS27039-1-12			
	6	-6		6	6	65	601.1365	SCREW	MS27039-1-10			
	12	-12		12	12	64	601.3069	SCREW	MS27039-1-09			
	3	-3		3	3	63	601.2198	SCREW	MS27039-1-07			
			2		2	62	601.3137	SCREW	MS27039-0816			
4		-4		4	4	61	601.2988	SCREW	MS27039-0813			
	1	-1		1	1	60	601.2525	SCREW	MS27039-0807			
	4	-4		4	4	59	601.3127	LOCKNUT	MS21042L5			
	2	-2		2	2	58	647.8512	INSERT				
	4	-4		4	4	57	647.8511	INSERT				
	20	20		18	18	56	647.8510	INSERT				
4		-4		4	4	55	601.3128	NUT	AN316C4R			
4		-4		8	8	54	601.3209	LOCKNUT	MS21042L4			
4	31	35	-4	30	34	53	601.2943	LOCKNUT	MS21042-3			
4	1	-5		6	1	7	52	601.2973	LOCKNUT	MS21042-08		
				4	4	51	601.3002	BOLT	NAS6604-66			
				4	4	50	601.3130	BOLT	NAS6603-16			
				4	4	49	601.1500	BOLT	NAS6603-12			
4		-4		4	4	48	601.2669	BOLT	AN4C7A			
	1	-1		1	1	47	601.1324	BOLT	AN4CH6A			
4		-4		4	4	46	601.2826	BOLT	AN3-11A			
	2	-2		2	2	45	601.2823	BOLT	AN3-4A			
12	-12			12	12	44	600.0795	NUTPLATE	MS21047-3			
	2	-2		2	2	43	601.3004	CAMLOC STUD				
	2	-2		2	2	42	601.3005	CAMLOC RETAINER				
	2	-2		2	2	41	601.3006	CAMLOC RECEPTACLE				
4		-4		4	4	40	601.3119	CLEVIS	AN665-34R			
7306	7305	7304	7303	7302	7301	7300	PART #	DESCRIPTION	MATL	SPCL		

Work Order ID 146294

Monday, May 16, 2016 11:10:26 AM

146294

Page 1,

Item ID: 647.7304 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: EC135 T2/P2 Cable Cutters System
 Start Date: 6/22/2016 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 6/27/2016 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: em Date: 6/05/19 Tooling: Date: Run Start ***NR1***
 QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.7300	B	MAY 24 2016							
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc Control USB or Paperwork	Photocopy bluefile & type labels per PPP 647.7304								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

MC MAY 24 2016